Order-No.: DD+DIS081.01E

1 Piece ULP7H MA1

ADC System Components

Type 4406

Description of Direct ID and Fast Preview

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1 Prerequisites

- Direct ID / Fast Preview (Precheck) are licensed options, which have to be purchased separately.
- Fast Preview function can be used with ADC Solo/Compact and a PRID Station.
  Direct ID function can be used with ADC Solo and a PRID-Station.
- Digitizer Software has to be at least version COP_13xx, res. SOL_12xx.
- PRID Software has to be at least version 1.2.07.
- 128 MB RAM must be installed on the PRID-Station to run the Fast Preview option.
- CCM tool version 1.1.04 or higher for the adaptation of the cpf-file.

2 Theory of Function

2.1 Fast Preview (Precheck)

It is useful to receive a preview image as fast as possible to decide if an x-ray has to be redone or not. A Fast Preview image is sent block by block (typical 100 lines) from the digitizer to one predefined PRID-Station while the IP is scanned. The Fast Preview image is reduced in size and is displayed as the pixels are coming from the digitizer. Because the image data is sent in DICOM format, the identification of the cassette has to be completed before or by Direct ID. The PRID-Station receives the Fast Preview image always with the complete ID data.

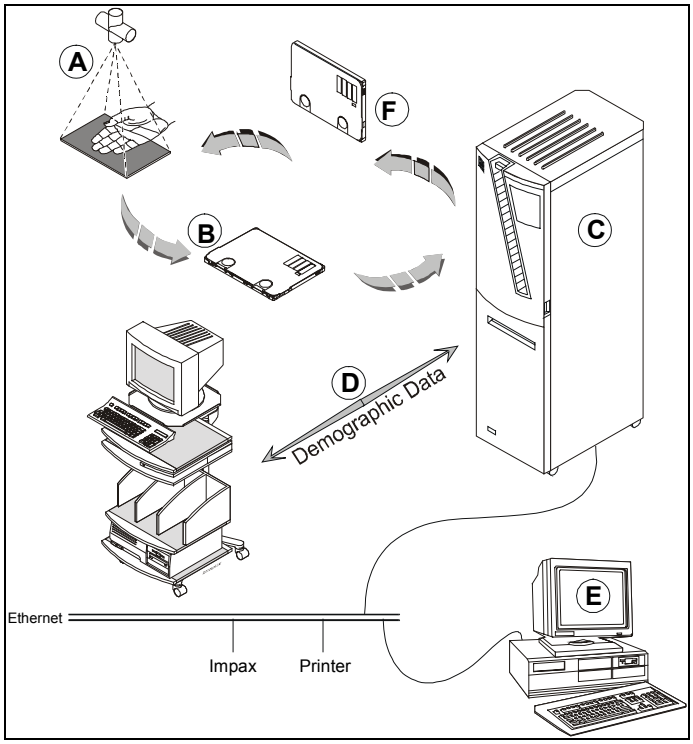
The preview module of the PRID prepares a display image that builds up on the monitor as scanning proceeds. The gray level representation improves from beginning to the end. With increasing completeness of bitmap and histogram the window and the gray level will automatically adapt.

Parallel, the conventional preview image will be prepared. As soon as it is available from the Processing Station it will be sent to the PRID and replaces the Fast Preview image, even if it was not complete.

2.2 Direct ID (Dedicated configuration)

The dedicated configuration offers a time saving workflow (approximately one minute for a two cassettes study). If only one ID Station is dedicated to one ADC Solo, cassettes can be identified without using an ID-Tablet. This option is called Direct ID. The demographic data are transmitted from the ID Station to the digitizer via the network. This data flow makes it possible to scan an IP and simultaneously to enter the ID data.

- A speed class is selected on the ADC Solo by use of the emergency buttons. The sensitivity associated with the emergency buttons has been set during the configuration of the system.
- An exposed (A) but unidentified cassette (B) is inserted into the digitizer.
- By entering the cassette, the digitizer reads the remaining cassette information of the RF Tag and a communication channel to its dedicated ID Station is opened (D).
- The digitizer starts scanning the IP (C) and sends an ID Data Request message to the ID Station along. The ID Window pops up at the ID Station and the ID data have to be entered.
- After the user completed the information at the ID Station, it is sent back to the digitizer (D). The communication channel is closed afterwards.
- The transmission of the scanned image to the Processing Station and the Fast Preview image data is sent to the PRID-Station.
- Before the cassette is put out (F), the ID data on the RF Tag are erased and the cycle counter is increased by the ADC Solo.



Dealing with an emergency cassette the identification can be left out at all. Therefore, the user enforces the complete processing of the IP by pressing the Confirm Key at the digitizer. The digitizer emits an ID Cancel command to the ID Station, where the ID screen drops and the communication channel is closed. The digitizer completes its emergency cycle and the cycle counter is increased by the ADC Solo.

2.3 Combination of Direct ID and Fast Preview

The features Direct ID and Fast Preview can also work in combination:

- A speed class by use of the emergency buttons is selected on the ADC Solo.
- An exposed but unidentified cassette is inserted into the digitizer.
- The digitizer starts scanning the IP and sends an ID Data Request message to the ID Station along. The ID Window pops up at the ID Station and the ID data will be entered.
- While the user is entering the data, the Fast Preview screen of the PRID is not visible. The transmission of the reduced Fast Preview image will be postponed until the ID data is completely inserted.
- The digitizer sends the image to the Processing Station and parallel the reduced Fast Preview image to the PRID. As soon as the calculation of the image is finished, the Processing Station sends the preview image to the PRID and replaces the Fast Preview.

3 Configuration

3.1 Direct ID

Make sure that the PRID-Station is switched on and obtainable from the digitizer.

- Call up the Service Menu of the Digitizer.
- Select `<Configure>`
  `<Direct identification>`
- Select an ID Station from the list, e.g. ID1.
- Make a new backup
- Activate the Direct ID license on the PRID – Station via the PRID license manager.
- Reset both, Digitizer and PRID-Station.
- Run a test:
  Insert a cassette into the digitizer, the ID window at the PRID-Station must pop up. Enter the ID-data while the IP is scanned.
  Check if the scanned image arrives at the Processing Station.

The IP-address of the digitizer is transferred to the PRID-Station at start-up. This IP-address is stored in the "directid.ini" on the PRID-Station.

3.2 Fast Preview

By default the Fast Preview image is sent to the PRID –Station on which the cassette has been identified.

You can change the destination of the Fast Preview image via CCM.

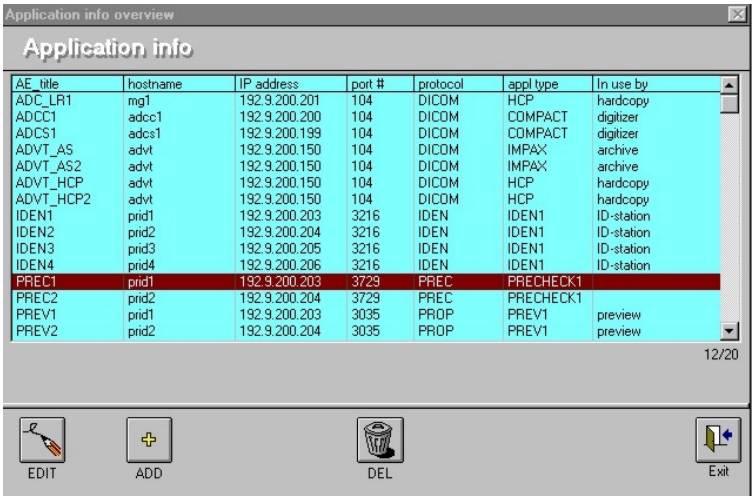
3.2.1 Steps to configure the PRID_station (Default Settings)

The Preview function of the requested PRID-Station must be active:

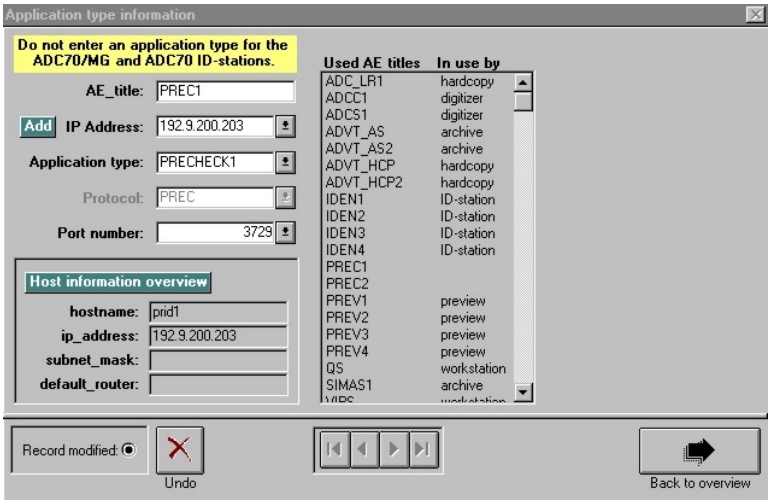
- License switched on.
- Preview function configured in cpf-file.

- Install PRID 1.2.07 on the PRID-Station.
- Activate the Fast Preview (= Precheck) license via PRID license manager (the conventional Preview function must be activated as well).
- Configure the cpf-file via CCM-tool (min. CCM1.1.04):
  Select

<Application>


Application info overview
Application info
AE_title hostname IP address port # protocol appl type In use by
ADC_LR1 mg1 192.9.200.201 104 DICOM HCP hardcopy
ADCC1 adcc1 192.9.200.200 104 DICOM COMPACT digitizer
ADCS1 adcs1 192.9.200.199 104 DICOM COMPACT digitizer
ADVT_AS advt 192.9.200.150 104 DICOM IMPAX archive
ADVT_AS2 advt 192.9.200.150 104 DICOM IMPAX archive
ADVT_HCP advt 192.9.200.150 104 DICOM HCP hardcopy
ADVT_HCP2 advt 192.9.200.150 104 DICOM HCP hardcopy
IDEN1 prid1 192.9.200.203 3216 IDEN IDEN1 ID-station
IDEN2 prid2 192.9.200.204 3216 IDEN IDEN1 ID-station
IDEN3 prid3 192.9.200.205 3216 IDEN IDEN1 ID-station
IDEN4 prid4 192.9.200.206 3216 IDEN IDEN1 ID-station
PREC1 prid1 192.9.200.203 3729 PREC PRECHECK1
PREC2 prid2 192.9.200.204 3729 PREC PRECHECK1
PREV1 prid1 192.9.200.203 3035 PROP PREV1 preview
PREV2 prid2 192.9.200.204 3035 PROP PREV1 preview
12/20
EDIT
ADD
DEL
Exit

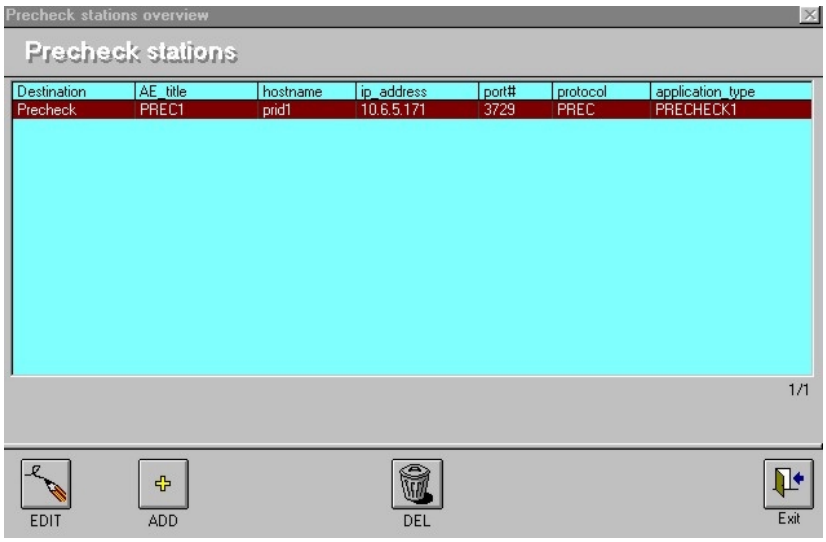
- Click <Add> to add a Precheck Station.



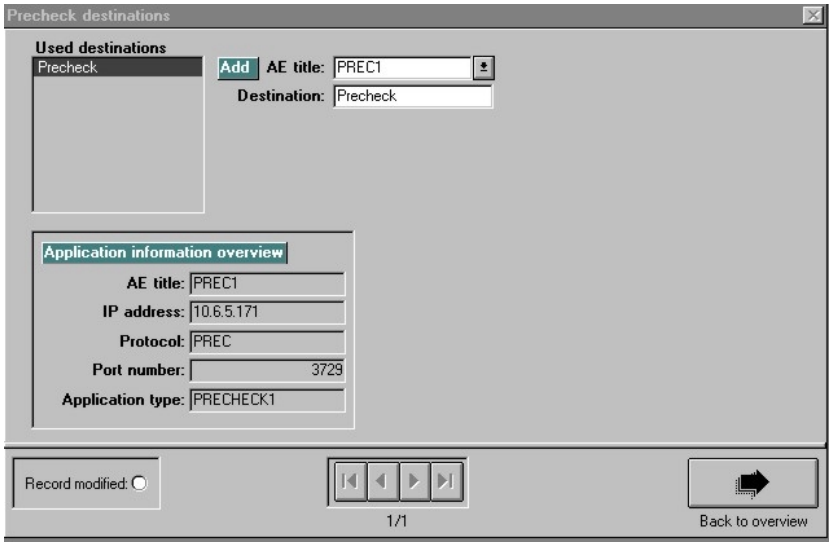
- Enter AE-title, IP-address and application type of the new Precheck Station.

- Select

  <Devices>
  <Precheck>



- Click <Add> to add a Precheck Station.



- Enter AE title and Destination of the new Precheck Station.

For a detailed description of the configuration via CCM tool, see section 6.2 of your Service Documentation ADC System Components.

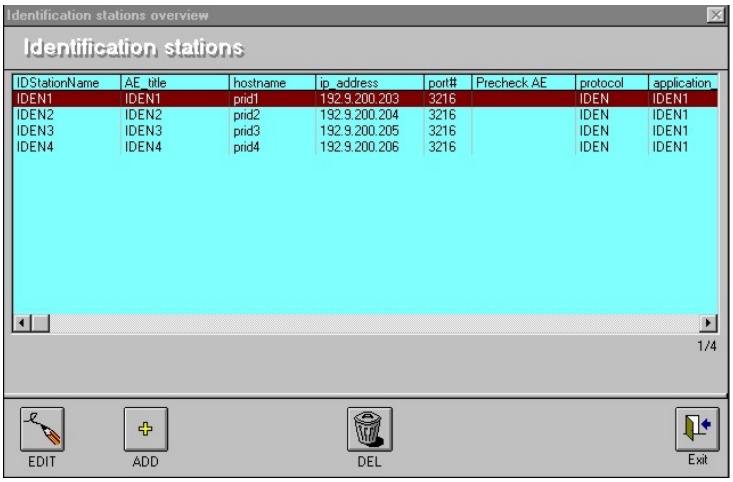
- Save your settings.
- Load the modified cpf-file to all the components of the system.

3.2.2 Rerouting to another Preview Station (Changing Default Settings)

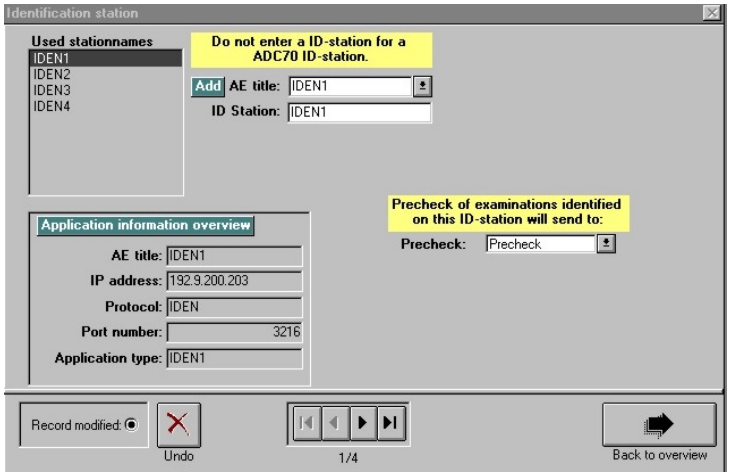
If you want to reroute the Precheck image to a Preview station other than the one on which the IP has been identified, you **additionally** have to configure this in the IDEN table.

- Select

```
<Devices>
        <ID Station>
```



- Select the ID Station you want to configure.
- Click <Edit>.



- Select from the field Precheck a Preview Station where the Precheck image should be sent to (one of the prechecks you have configured in the PREC-table).

3.2.3 Steps to configure the ADC Solo/Compact

- Install SOL_12xx / COP_13xx on the ADC Solo / ADC Compact.
- Reset the Digitizer.

The Precheck function at the digitizer is disabled by default. It has to be enabled in the key operator menu.

- Enter the key operator menu of ADC Solo .

- Select `<Precheck enable>`.
- Reset the Digitizer.

- Run a test:
  Insert a cassette into the digitizer, the Fast Preview image must appear block by block on the screen of the defined Preview Station.
  As soon as the image is processed completely, the Fast Preview image must be replaced by the one coming from the Processing Station.